

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	6300133-00011	Date of first issue: 2020/09/02

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Calcium Gluconate / Magnesium Hypophosphite Hexahydrate Formulation
Manufacturer or supplier's d	eta	ils
Company	:	MSD
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331
Telephone	:	+1-908-740-4000
Emergency telephone number	:	86-571-87268110
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the ch	em	ical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

2. HAZARDS IDENTIFICATION

Emergency Overview	
Appearance Colour Odour	 liquid Colorless to pale yellow No data available
May damage fertility. May d	amage the unborn child.
GHS Classification	
Reproductive toxicity	: Category 1B
GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	: H360FD May damage fertility. May damage the unborn child.



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Precautionary statements

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Not classified based on available information.

Health hazards

May damage fertility. May damage the unborn child.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Boric acid	10043-35-3	>= 2.5 -< 10
Magnesium hypophosphite hexahydrate	7783-17-7	>= 1 -< 10
4-Chloro-3-methylphenol	59-50-7	>= 0.1 -< 0.25

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.
In case of skin contact	:	Get medical attention. In case of contact, immediately flush skin with soap and plenty



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In case of eye contact If swallowed Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		: : :	of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. May damage fertility. May damage the unborn child. First Aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively.		
5. FI	5. FIREFIGHTING MEASURES				
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant t Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Metal oxides Oxides of phosph Boron oxides	orus
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for firef	protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment.



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gency	quipment and emer- procedures	tective equipr : Avoid release Prevent furthe Prevent sprea barriers). Retain and di	andling advice (see section 7) and personal pro- ment recommendations (see section 8). e to the environment. er leakage or spillage if safe to do so. ading over a wide area (e.g. by containment or oil spose of contaminated wash water. ties should be advised if significant spillages intained.
	ods and materials for inment and cleaning up	For large spill ment to keep be pumped, s Clean up rem bent. Local or natio posal of this r employed in t mine which re Sections 13 a	inert absorbent material. Is, provide dyking or other appropriate contain- material from spreading. If dyked material can store recovered material in appropriate container. Jaining materials from spill with suitable absor- onal regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- egulations are applicable. and 15 of this SDS provide information regarding or national requirements.

7. HANDLING AND STORAGE

Handling		
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe vapours or spray mist. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	:	Oxidizing agents
Storage		
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.



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 Materials to avoid
 : Do not store with the following product types:

 Strong oxidizing agents

Packaging material : Unsuitable material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Boric acid	10043-35-3	TWA (Inhal- able particu- late matter)	2 mg/m3 (Borate)	ACGIH
		STEL (Inhal- able particu- late matter)	6 mg/m3 (Borate)	ACGIH
4-Chloro-3-methylphenol	59-50-7	TWA	200 µg/m3 (OEB 2)	Internal
		Wipe limit	100 µg/100 cm2	Internal

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Personal protective equipment	
Respiratory protection :	sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Eye/face protection :	Particulates type Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection :	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces.

Use appropriate degowning techniques to remove potentially



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Hand protection		contaminated clothing.
Material	:	Chemical-resistant gloves
Remarks Hygiene measures	::	Consider double gloving. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	Colorless to pale yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	3.7
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available



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Rela	ative vapour density	:	No data available	e
Rela	ative density	:	No data available	e
Den	sity	:	No data available	e
	ıbility(ies) Vater solubility	:	No data available	e
	ition coefficient: n- nol/water	:	Not applicable	
	p-ignition temperature	:	No data available	e
Dec	omposition temperature	:	No data available	e
	osity /iscosity, kinematic	:	No data available	e
Expl	losive properties	:	Not explosive	
Oxic	dizing properties	:	The substance o	or mixture is not classified as oxidizing.
Mole	ecular weight	:	No data available	e
	icle characteristics icle size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac-	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Exposure routes	: Inhalation
-	Skin contact
	Ingestion
	Eye contact

Acute toxicity

Not classified based on available information.

Product:



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Acute	e oral toxicity		ty estimate: > 5,000 mg/kg Iculation method
<u>Com</u>	ponents:		
Borio	acid:		
Acute	e oral toxicity	: LD50 (Rat):	3,450 mg/kg
Acute	inhalation toxicity	Method: OE	
Acute	e dermal toxicity		bit): > 2,000 mg/kg t: The substance or mixture has no acute derm
Magr	esium hypophosphi	te hexahydrate:	
-	e oral toxicity	Method: OE	female): > 2,000 - 5,000 mg/kg CD Test Guideline 423 ased on data from similar materials
Acute		Method: OE Remarks: B : LC50 (Rat): Exposure ti Test atmos Method: OE	CD Test Guideline 423 ased on data from similar materials > 3.3 mg/l
Acute	e oral toxicity	Method: OE Remarks: B : LC50 (Rat): Exposure ti Test atmosp Method: OE Remarks: B : LD50 (Rat): Assessmen toxicity	CD Test Guideline 423 based on data from similar materials > 3.3 mg/l me: 4 h ohere: dust/mist CD Test Guideline 403
Acute Acute	e oral toxicity	Method: OE Remarks: B : LC50 (Rat): Exposure ti Test atmosp Method: OE Remarks: B : LD50 (Rat): Assessmen toxicity Remarks: B	CD Test Guideline 423 sased on data from similar materials > 3.3 mg/l me: 4 h ohere: dust/mist CD Test Guideline 403 sased on data from similar materials > 2,000 mg/kg t: The substance or mixture has no acute derm
Acute Acute Acute	e oral toxicity e inhalation toxicity e dermal toxicity	Method: OE Remarks: B : LC50 (Rat): Exposure ti Test atmosp Method: OE Remarks: B : LD50 (Rat): Assessmen toxicity Remarks: B	CD Test Guideline 423 sased on data from similar materials > 3.3 mg/l me: 4 h ohere: dust/mist CD Test Guideline 403 sased on data from similar materials > 2,000 mg/kg t: The substance or mixture has no acute derm
Acute Acute Acute 4-Ch I Acute	e oral toxicity e inhalation toxicity e dermal toxicity	Method: OE Remarks: B : LC50 (Rat): Exposure ti Test atmosy Method: OE Remarks: B : LD50 (Rat): Assessmen toxicity Remarks: B : LD50 (Mous : LC50 (Rat): Exposure ti	CD Test Guideline 423 Gased on data from similar materials > 3.3 mg/l me: 4 h ohere: dust/mist CD Test Guideline 403 Gased on data from similar materials > 2,000 mg/kg t: The substance or mixture has no acute derm Gased on data from similar materials see): 600 mg/kg > 2.871 mg/l

Not classified based on available information.



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Components:

Boric acid:

Species	
Result	

RabbitNo skin irritation

Magnesium hypophosphite hexahydrate:

: Rabbit
: OECD Test Guideline 404
: No skin irritation
: Based on data from similar materials

4-Chloro-3-methylphenol:

Species : Method : Result :	Rabbit
Method :	OECD Test Guideline 404
Result :	Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Boric acid:

Species Result	:	Rabbit
Result	:	No eye irritation

Magnesium hypophosphite hexahydrate:

Species :	Rabbit
Result :	No eye irritation
Method :	OECD Test Guideline 405
Species:Result:Method:Remarks:	Based on data from similar materials

4-Chloro-3-methylphenol:

Species	:	Rabbit
Species Result Method	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.



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Components:

Boric acid:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Test Type Exposure routes Species Method Result	: negative

Magnesium hypophosphite hexahydrate:

Test Type :	Maximisation Test
Exposure routes	Skin contact
Species	Guinea pig
Method	OECD Test Guideline 406
Result	negative
Test Type Exposure routes Species Method Result Remarks	Based on data from similar materials

4-Chloro-3-methylphenol:

	:	Maximisation Test Skin contact Guinea pig
Assessment	:	Probability or evidence of low to moderate skin sensitisation rate in humans

Germ cell mutagenicity

Not classified based on available information.

Components:

Boric acid:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: equivocal
		Test Type: Chromosome aberration test in vitro Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative

Magnesium hypophosphite hexahydrate:



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Geno	otoxicity in vitro	Methoo Result	ype: Bacterial reverse mutation assay (AMES) d: OECD Test Guideline 471 : negative ks: Based on data from similar materials
		Methoo Result	ype: Chromosome aberration test in vitro d: OECD Test Guideline 473 : negative ks: Based on data from similar materials
Genotoxicity in vivo		cytoge Specie Applica Methoo Result:	ype: Mammalian erythrocyte micronucleus test (in vivo netic assay) es: Mouse ation Route: Ingestion d: OECD Test Guideline 474 : negative ks: Based on data from similar materials
4-Chl	loro-3-methylphenol:		
Geno	otoxicity in vitro		ype: Bacterial reverse mutation assay (AMES) : negative
	inogenicity lassified based on ava	ilable informa	tion.
Com	ponents:		
Boric	c acid:		

: Mouse
: Ingestion
: 103 weeks
: negative

Reproductive toxicity

May damage fertility. May damage the unborn child.

Components:

Boric acid:		
Effects on fertility	:	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: positive
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: positive



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Repro sessn	oductive toxicity - As- nent	:	ity, based on a	e of adverse effects on sexual function and fe nimal experiments., Clear evidence of advers elopment, based on animal experiments.
Magn	esium hypophosphit	e hex	ahydrate:	
Effect	s on fertility	:	test Species: Rat Application Ro Method: OECE Result: negativ) Test Guideline 421
Effect ment	s on foetal develop-	:	test Species: Rat Application Ro Method: OECE Result: negativ) Test Guideline 421
4-Chl	oro-3-methylphenol:			
Effect	s on fertility	:	: Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative	
Effect ment	s on foetal develop-	:	Test Type: Rep test Species: Rat Application Ro Result: negativ	

Not classified based on available information.

Components:

4-Chloro-3-methylphenol:

Assessment

: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.



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Repeated dose toxicity

Components:

Boric acid:

Species	:	Rat
NOAEL	:	100 mg/kg
LOAEL	:	334 mg/kg
Application Route	:	Ingestion
Species NOAEL LOAEL Application Route Exposure time	:	2 yr

4-Chloro-3-methylphenol:

Species NOAEL	:	Rat
NOAEL	:	200 mg/kg
LOAEL	:	400 mg/kg
Application Route	:	Ingestion
Exposure time	:	28 Days

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Boric acid:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 74 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 102 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 52.4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 17.5 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Danio rerio (zebra fish)): 6.4 mg/l Exposure time: 34 d Method: OECD Test Guideline 210



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aqu	kicity to daphnia and other latic invertebrates (Chron- oxicity)	:	NOEC (Daphnia r Exposure time: 2 ²	magna (Water flea)): 10.8 mg/l 1 d	
	kicity to microorganisms	:	EC10: 35.4 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
∎ Ma	gnesium hypophosphite	hex	ahvdrate:		
	kicity to fish	:	LC50 (Danio reric Exposure time: 96 Method: OECD T		
	kicity to daphnia and other latic invertebrates	:	Exposure time: 48 Method: OECD T		
To» pla	kicity to algae/aquatic nts	:	mg/l Exposure time: 72 Method: OECD T		
			mg/l Exposure time: 72 Method: OECD T		
aqu	kicity to daphnia and other latic invertebrates (Chron- oxicity)	:	Exposure time: 2 ² Method: OECD T		
4-C	hloro-3-methylphenol:				
	cicity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 917 μg/l δ h	
	kicity to daphnia and other latic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T		
To» pla	kicity to algae/aquatic nts	: ErC50 (Chlorella pyrenoidosa (algae)): 15 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		2 h	
			EC10 (Chlorella p	pyrenoidosa (algae)): 2.3 mg/l	

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			Exposure time: 72 Method: OECD T	
M- ici	Factor (Acute aquatic tox-	:	1	
To aq	oxicity to daphnia and other uatic invertebrates (Chron- toxicity)		NOEC (Daphnia i Exposure time: 2 Method: OECD T	
Тс	exicity to microorganisms	:	EC50: 22.86 mg/l Exposure time: 60	
Pe	ersistence and degradabili	ty		
<u>Co</u>	omponents:			
4-	Chloro-3-methylphenol:			
Bi	odegradability	:	Result: Readily b Biodegradation: Exposure time: 1 Method: OECD T	78 % 5 d
Bi	oaccumulative potential			
<u>Co</u>	omponents:			
В	oric acid:			
Bi	paccumulation	:		s carpio (Carp) factor (BCF): <= 3.2 est Guideline 305
	artition coefficient: n- tanol/water	:	log Pow: -1.09	
4-	Chloro-3-methylphenol:			
Bi	oaccumulation	:	Species: Cyprinus Bioconcentration	s carpio (Carp) factor (BCF): 5.5 - 13
	artition coefficient: n- tanol/water	:	log Pow: 0.477	

Mobility in soil

No data available

Other adverse effects

No data available



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13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han-
		dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels Environmentally hazardous	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: no

Not applicable for product as supplied.

National Regulations

GB 6944/12268

Marine pollutant



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Prope Class Subsi Packi Label	diary risk ng group	 Not applicable no 	
-	ial precautions for un oplicable	ser	
15. REGU	LATORY INFORMAT	ION	
Regu		d Control of Occupation Inagement of Hazardou Inemicals	
Identi 18218		rd Installations for Haza	dous Chemicals (GB : Not listed
Hazaı SAWS		riority Management und	er : Not listed
II Regu	lations on Labour P	rotection in Workplace	where Toxic Substances are Used
Catal	ogue of Highly Toxic (Chemicals	: Not listed
	lation of Environme Export of Toxic Chen		e First Import of Chemicals and the Import
China and E		Toxic Chemicals for Impo	ort : Not listed
-		istration of Precursor C n of Precursor Chemica	
Yang	tze River Protection	Law	
This p	product does not conta	ain any dangerous chem	cals prohibited for inland river transport.
The c DSL	omponents of this p	roduct are reported in : not determined	the following inventories:



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AI	CS	:	not determined	
IE	CSC	:	not determined	
16. OT	HER INFORMATION			
R	evision Date	:	2024/09/28	
Fu	urther information			
CC	ources of key data used to ompile the Safety Data neet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
14.				we wereign are highlighted in the hady of this

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	yyyy/mm/dd
Full text of other abbreviatio	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
		9 hour time weighted everage
ACGIN / TWA		8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
	Full text of other abbreviatio ACGIH ACGIH / TWA	Full text of other abbreviationsACGIH:ACGIH / TWA:

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Trans-



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portation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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